

AMENDMENT TO THE CLAIMS

1.-248. (Canceled)

249. (Previously Presented) A method comprising:

implanting at least one electrode in a patient in contact with a pelvic muscle of the patient;

implanting a stimulator device in the patient; and

driving the at least one electrode to apply a biphasic electrical waveform to the muscle using the stimulator device.

250. (Original) The method according to claims 249, wherein implanting the at least one electrode comprises implanting the at least one electrode in the pelvic muscle.

251. (Previously Presented) The method according to claim 249, further comprising contracting the pelvic muscle in response to driving the at least one electrode, wherein urine flow through a urethra of the patient is inhibited.

252. (Previously Presented) The method according to claim 251, wherein driving the at least one electrode comprises configuring the waveform to treat urinary urge incontinence.

253. (Previously Presented) The method according to claim 251, wherein driving the at least one electrode comprises configuring the waveform to treat stress incontinence.

254.-272. (Canceled)

273. (Previously Presented) A method comprising:  
implanting at least one elongated electrode structure in general alignment with a urethra of a patient, in contact with a pelvic muscle of the patient;  
implanting a stimulator device in the patient;  
driving the at least one electrode to apply an electrical waveform to the muscle using the stimulator device; and  
contracting the pelvic muscle in response to driving the at least one electrode, wherein urine flow through the urethra of the patient is inhibited.
274. (Original) The method according to claim 273, wherein implanting the at least one electrode comprises implanting the at least one electrode in the pelvic muscle.
275. (New) The method according to claim 273, further comprising providing for the waveform a range of pulse width durations that includes 2 ms.
276. (New) The method according to claim 275, wherein providing the range of pulse width durations comprises setting the range of pulse width durations to be selectable from 0.1 ms to 2 ms.
277. (New) The method according to claim 273, wherein driving the at least one electrode comprises providing for the waveform a plurality of pulses each having a duration of less than 1 ms.
278. (New) The method according to claim 273, wherein driving the at least one electrode comprises configuring the waveform to treat urinary urge incontinence.
279. (New) The method according to claim 273, wherein driving the at least one electrode comprises configuring the waveform to treat stress incontinence.

280. (New) The method according to claim 273, wherein the pelvic muscle includes the levator ani muscle, and wherein implanting the at least one electrode comprises implanting the at least one electrode in the levator ani muscle.

281. (New) The method according to claim 273, wherein the pelvic muscle includes the urethral sphincter muscle, and wherein implanting the at least one electrode comprises implanting the at least one electrode in the urethral sphincter muscle.

282. (New) The method according to claim 273, further comprising terminating application of the waveform to the muscle after a predetermined period of time.

283. (New) The method according to claim 282, wherein the predetermined period of time is about 5 seconds.

284. (New) The method according to claim 282, wherein driving the at least one electrode comprises driving the at least one electrode to reapply the waveform after termination of the application of the waveform.

285. (New) The method according to claim 273, wherein driving the at least one electrode comprises providing for the waveform a biphasic electrical waveform.